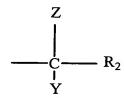
### WHAT IS CLAIMED IS:

- 1 A method of treating a retroviral infection by an HIV retrovirus in an afflicted 1. host which comprises administering to the host a therapeutically effective amount of a 2
- compound represented by the following formula: 3

- or a pharmaceutically acceptable acid-addition or base-addition salt thereof; 4
- 5 wherein:

7

- 6 component A is a substituted or unsubstituted aryl functional group, substituted or unsubstituted piperidyl, substituted or unsubstituted thiopheneyl;
- 8 component L is sulfonyl, sulfinyl or thio; and,
- 9 component B is a substituted or unsubstituted aromatic nitrogen containing 10 heteroaryl functional group.
- The method of claim 1 wherein the retroviral infection being treated is 1 2. an infection by an HIV retrovirus selected from the group consisting of HIV-1 and HIV-2. 2
- The method of claim 1 wherein the substituted or unsubstituted aryl functional 1 3. 2 group component A is a functional group of the following formula:



wherein Z is H, Cl, cyano, alkyl having from 1 to 15 carbon atoms, alkoxyalkyl having 2 or 3 carbon atoms; Y is H or a double bond to a carbon which is attached to R; and R is phenyl, biphenyl, benzyl, polycycloaryl, heteroaryl or phenyl substituted with 1 to 5 substituents which may be the same or different, the substituents being selected from the group consisting of lower alkyl having from 1 to 5 carbon atoms, halogen, nitro, methoxy, ethoxy, benzyloxy, methylenedioxy, 2,2-dichlorocyclopropyl, trifluoromethyl, methylsulfonyl, cyano and phenoxy.

4. The method of claim 1 wherein the substituted or unsubstituted aromatic nitrogen containing heteroaryl functional group component B is 4-methylquinolyl, 8-ethyl-4-methylquinolyl or a functional group of the following formula:

- wherein n is 0 or 1, R<sub>1</sub> and R<sub>2</sub> may be the same or different and are H, halogen, lower alkyl having from 1 to 4 carbon atoms, hydroxy, or nitro.
- 5. The method of claim 1 wherein the compound is selected from
  the group consisting of 2-(phenylmethylsulfonyl) pyridine-N-oxide, 2-[1-(2,5dimethylphenyl)octylsulfonyl] pyridine-N-oxide, 2-[(2,5-dimethylphenyl)methylsulfonyl]
  pyridine-N-oxide, 2-[[1-(2,5-dimethylphenyl)ethyl]sulfonyl]-3-methylpyridine-N-oxide, 2[[1-(2,5-dimethylphenyl)chloromethyl]sulfonyl]-4-methylpyridine-N-oxide, 2-[1-(2,5-dimethylphenyl)chloromethyl]sulfonyl]-4-methylpyridine-N-oxide, 2-[1-(2,5-dimethylphenyl)chloromethyl]sulfonyl]

6	dimethylphenyl)chloromethyl]sulfonyl pyridine, 2-[1-(2,5-dimethylphenyl)methylthio]-3-
7	chloropyridine-N-oxide, 2-[phenylmethyl]thio-3-hydroxypyridine, 2-[(2,5-
8	dimethylphenyl)methylthio] pyridine, 2-[(2,3,4,5,6-pentachlorophenyl)methylsulfonyl]
9	pyridine N-oxide, 2[1-(phenylethyl)sulfonyl]-8-ethyl-4-methylquinoline, 2-[(3,4-
10	dichlorophenyl)methylsulfonyl] pyridine-N-oxide, 2-[(4-(2,2-
11	dichlorocyclopropyl)phenyl)methylsulfonyl] pyridine-N-oxide, 2-[(2,4,6-
12	trimethylphenyl)methylsulfinyl] pyridine-N-oxide, 2-[(3-nitro-4-
13	chlorophenyl)methylsulfonyl] pyridine-N-oxide, 2-[phenylmethylsulfinyl] pyridine-N-oxide
14	2-[[1-(2,5-dimethylphenyl)propyl]sulfonyl]-3-methylpyridine-N-oxide, 2-[(9-
15	anthryl)methylsulfonyl] pyridine-N-oxide, 2-[4-((1,1dimethyl)propyl)
16	phenyl)methylsulfonyl] pyridine-N-oxide, 2-[1-(2,5-dimethylphenyl)ethylthio]-4-
17	methylquinoline, 2-[[(2,5dimethylphenyl)methyl]sulfonyl]-3-methylpyridine-N-oxide and
18	pharmaceutically acceptable acid-addition and base-addition salts thereof.
1	6. The method of claim 1 wherein the compound is contained in a composition
2	containing a pharmaceutically acceptable carrier.

7. A method of inhibiting the replication of an HIV retrovirus, the method
comprising contacting the HIV retrovirus with an effective amount a compound represented
by the following formula:

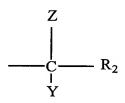
A —— L —— B

- 4 or a pharmaceutically acceptable acid-addition or base-addition salt thereof;
- 5 wherein:

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- component A is a substituted or unsubstituted aryl functional group, substituted or unsubstituted piperidyl, substituted or unsubstituted thiopheneyl;
- 8 component L is sulfonyl, sulfinyl or thio; and,
  - component B is a substituted or unsubstituted aromatic nitrogen containing heteroaryl functional group.
- 1 8. The method of claim 7 wherein the HIV retrovirus whose replication is being inhibited is a retrovirus selected from the group consisting of HIV-1 and HIV-2.
- 1 9. The method of claim 7 wherein the substituted or unsubstituted aryl functional group component A is a functional group of the following formula:



wherein Z is H, Cl, cyano, alkyl having from 1 to 15 carbon atoms, alkoxyalkyl having
2 or 3 carbon atoms; Y is H or a double bond to a carbon which is attached to R; and R is
phenyl, biphenyl, benzyl, polycycloaryl, heteroaryl or phenyl substituted with 1 to 5
substituents which may be the same or different, the substituents being selected from the
group consisting of lower alkyl having from 1 to 5 carbon atoms, halogen, nitro, methoxy,
ethoxy, benzyloxy, methylenedioxy, 2,2-dichlorocyclopropyl, trifluoromethyl,
methylsulfonyl, cyano and phenoxy.

1 10. The method of claim 7 wherein the substituted or unsubstituted aromatic
2 nitrogen containing heteroaryl functional group component B is 4-methylquinolyl, 8-ethyl-43 methylquinolyl or a functional group of the following formula:

$$R_1$$
 $R_2$ 
 $R_2$ 
 $R_2$ 
 $R_2$ 
 $R_2$ 
 $R_2$ 

- wherein n is 0 or 1, R<sub>1</sub> and R<sub>2</sub> may be the same or different and are H, halogen, lower alkyl having from 1 to 4 carbon atoms, hydroxy, or nitro.
- 1 11. The method of claim 7 wherein the compound is selected from the group 2 consisting of 2-(phenylmethylsulfonyl) pyridine-N-oxide, 2-[1-(2,5dimethylphenyl)octylsulfonyl] pyridine-N-oxide, 2-[(2,5-dimethylphenyl)methylsulfonyl] 3 4 pyridine-N-oxide, 2-[[1-(2,5-dimethylphenyl)ethyl]sulfonyl]-3-methylpyridine-N-oxide, 2-5 [[1-(2,5-dimethylphenyl)chloromethyl]sulfonyl]-4-methylpyridine-N-oxide, 2-[1-(2,5-6 dimethylphenyl)chloromethyl]sulfonyl pyridine, 2-[1-(2,5-dimethylphenyl)methylthio]-3-7 chloropyridine-N-oxide, 2-[phenylmethyl]thio-3-hydroxypyridine, 2-[(2,5-8 dimethylphenyl)methylthio] pyridine, 2-[(2,3,4,5,6-pentachlorophenyl)methylsulfonyl] 9 pyridine N-oxide, 2[1-(phenylethyl)sulfonyl]-8-ethyl-4-methylquinoline, 2-[(3,4-10 dichlorophenyl)methylsulfonyl] pyridine-N-oxide, 2-[(4-(2,2-11 dichlorocyclopropyl)phenyl)methylsulfonyl] pyridine-N-oxide, 2-[(2,4,6-12 trimethylphenyl)methylsulfinyl] pyridine-N-oxide, 2-[(3-nitro-4-13 chlorophenyl)methylsulfonyl] pyridine-N-oxide, 2-[phenylmethylsulfinyl] pyridine-N-oxide,

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14	2-[[1-(2,5-dimethylphenyl)propyl]sulfonyl]-3-methylpyridine-N-oxide, 2-[(9-
15	anthryl)methylsulfonyl] pyridine-N-oxide, 2-[4-((1,1dimethyl)propyl) phenyl)methylsulfonyl]
16	pyridine-N-oxide, 2-[1-(2,5-dimethylphenyl)ethylthio]-4-methylquinoline, 2-
17	[[(2,5dimethylphenyl)methyl]sulfonyl]-3-methylpyridine-N-oxide and pharmaceutically
18	acceptable acid-addition and base-addition salts thereof.

- 12. The method of claim 7 wherein the compound is contained in a composition containing a pharmaceutically acceptable carrier.
- 1 13. A method of treating an HIV infection in an afflicted host which comprises 2 administering to the host a therapeutically effective amount of a compound selected from the 3 group consisting of 2-[[1-(2,5-dimethylphenyl)ethyl]sulfonyl]-3-methylpyridine-N-oxide, 2-[[1-(2,5-dimethylphenyl)chloromethyl]sulfonyl]-4-methylpyridine-N-oxide, 2-[1-(2,5-dimethylphenyl)chloromethyl]sulfonyl]-4-methylpyridine-N-oxide, 2-[1-(2,5-dimethylphenyl)chloromethyl]sulfonyl]-4-methylpyridine-N-oxide, 2-[1-(2,5-dimethylphenyl)chloromethyl]sulfonyl]-4-methylpyridine-N-oxide, 2-[1-(2,5-dimethylphenyl)chloromethyl]sulfonyl]-4-methylpyridine-N-oxide, 2-[1-(2,5-dimethylphenyl)chloromethyl]sulfonyl]-4-methylpyridine-N-oxide, 2-[1-(2,5-dimethylphenyl)chloromethyl]sulfonyl]-4-methylpyridine-N-oxide, 2-[1-(2,5-dimethylphenyl)chloromethyl]sulfonyl]-4-methylpyridine-N-oxide, 2-[1-(2,5-dimethylphenyl)chloromethyl]sulfonyl]-4-methylpyridine-N-oxide, 2-[1-(2,5-dimethylphenyl)chloromethyl]sulfonyl]-4-methylpyridine-N-oxide, 2-[1-(2,5-dimethylphenyl)chloromethyl]sulfonyl] 4 dimethylphenyl)chloromethyl]sulfonyl] pyridine, 2-[1-(2,5-dimethylphenyl)methylthio]-3-5 6 chloropyridine-N-oxide, 2-[phenylmethyl]thio-3-hydroxypyridine, 2-[(2,3,4,5,6-7 pentachlorophenyl) methylsulfonyl] pyridine N-oxide, 2[1-(phenylethyl)sulfonyl]-8-ethyl-4-8 methylquinoline, 2-[(3,4-dichlorophenyl)methylsulfonyl] pyridine-N-oxide, 2-[(4-(2,2-9 dichlorocyclopropyl)phenyl)methylsulfonyl] pyridine-N-oxide, 2-[(2,4,6-trimethylphenyl) 10 methylsulfinyl] pyridine-N-oxide ,2-[(3-nitro-4-chlorophenyl)methylsulfonyl] pyridine-Noxide, 2-[phenylmethylsulfinyl] pyridine-N-oxide, 2-[[(2,5dimethylphenyl)methyl]sulfonyl]-11 12 3-methylpyridine-N-oxide and pharmaceutically acceptable acid-addition and base-addition 13 salts thereof.